



Contents Volume 179 (2005)

Special Issue:

Sediment gravity flows: Recent advances in process and field analysis

Edited by: Jaco H. Baas

Preface

Sediment gravity flows: Recent advances in process and field analysis—introduction

J.H. Baas	1
---------------------	---

Research Papers

Density- and viscosity-stratified gravity currents: Insight from laboratory experiments and implications for submarine flow deposits	
L.A. Amy, J. Peakall and P.J. Talling	5
Combined measurements of velocity and concentration in experimental turbidity currents	
M. Felix, S. Sturton and J. Peakall	31
Comparison of spatio-temporal evolution of experimental particulate gravity flows at two different initial concentrations, based on velocity, grain size and density data	
C.M.A. Choux, J.H. Baas, W.D. McCaffrey and P.D.W. Haughton	49
Morphology, evolution and fill: Implications for sand and mud distribution in filling deep-water canyons and slope channel complexes	
B.T. Cronin, A.M. Akhmetzhanov, A. Mazzini, G. Akhmanov, M. Ivanov, N.H. Kenyon and TTR-10 Shipboard Scientists	71
An evaluation of along- and down-slope sediment transport processes between Goban Spur and Brenot Spur on the Celtic Margin of the Bay of Biscay	
M.J. Cunningham, S. Hodgson, D.G. Masson and L.M. Parson	99
Contrasting styles of shelf sediment transport and deposition in a ramp margin setting related to relative sea-level change and basin floor topography, Turonian (Cretaceous) Western Interior of central Utah, USA	
C.M. Edwards, D.M. Hodgson, S.S. Flint and J.A. Howell	117
Imaging bed geometry and architecture of massive sandstones in the Fontanelice Channels, Italian Apennines, using new digiscoping techniques	
R.B. Wynn, P.J. Talling and L. Amy	153
Bed geometry used to test recognition criteria of turbidites and (sandy) debrites	
L.A. Amy, P.J. Talling, J. Peakall, R.B. Wynn and R.G. Arzola Thynne	163

ExpresSed

Switching off the carbonate factory: A-tidality, stratification and brackish wedges in epeiric seas	
P.A. Allison and V.P. Wright	175

Research Papers

Impregnation method for detecting annual laminations in sediment cores: An overview	
X. Boës and N. Fagel	185

Statistical analysis of bed-thickness variation in a Tortonian succession of biocalcarenitic tidal dunes, Amantea Basin, Calabria, southern Italy S.G. Longhitano and W. Nemec	195
The stratigraphic record of the Messinian salinity crisis in the northern margin of the Bajo Segura Basin (SE Spain) J.M. Soria, J.E. Caracul, A. Yébenes, J. Fernández and C. Viseras	225
Diagenesis of 1900-year-old siliceous sinter (opal-A to quartz) at Opal Mound, Roosevelt Hot Springs, Utah, U.S.A. B.Y. Lynne, K.A. Campbell, J.N. Moore and P.R.L. Browne	249
Seismic-induced slump in Early Pleistocene deltaic deposits of the Baza Basin (SE Spain) L. Gibert, C. Sanz de Galdeano, P. Alfaro, G. Scott and A.C. López Garrido	279
Holocene valley incision during sea level transgression under a monsoonal climate A.S. Khadkikar and C. Rajshekhar	295
A modified stochastic approach to detect differences between sedimentary histories: Case study from the Roztoka–Mokrzyszów Graben (SW Poland) T. Niedzielski and P. Migoń	305
The formation of silt material for terrestrial sediments: Particularly loess and dust I.J. Smalley, R. Kumar, K. O'Hara Dhand, I.F. Jefferson and R.D. Evans	321
<i>Book review</i>	
Glaciers S.D. Gurney	329
<i>Contents Volume 179 (2005)</i>	331

